



NORFOLK

Inter Departmental Memorandum

TO: Norfolk Design Review Committee

FROM: Frank Duke, AICP, Executive Secretary

COPIES: Lori Cloud (City Clerk's office)

SUBJECT: Preliminary Agenda for March 19, 2012 Meeting

March 9, 2012

Following is the preliminary agenda for the Norfolk Design Review Committee meeting on **Monday, March 19, 2012 at 4:00 p.m. in the 10th Floor Conference Room at City Hall**. An informal discussion of agenda items is at 3:45 p.m. for interested parties in the 5th floor conference room.

A. Private Projects

1. Preliminary Review

- a. 139 Riverview Avenue/Riverview Lofts – Installation of dumpsters with screening
- b. 2717 Tait Terrace/Ballentine Bark Park – Installation of water station and pavers

B. East Beach Compliance Certificate

1. Preliminary Review

- a. South end of 24th Bay Street/East Beach Marina – Installation of boat ramp and pier

An applicant or representative must attend the Design Review Committee meeting to present the request.

Applications for items scheduled for the Design Review Committee meeting can be viewed at the website below:

www.norfolk.gov/Planning/designreview.asp



N O R F O L K

APPLICATION FOR DESIGN REVIEW

Please return to:

Department of Planning and Community Development

508 City Hall Building

Norfolk, Virginia 23510

PHONE: (757) 823-1451 FAX: (757) 441-1569

EMAIL: susannah.winstead@norfolk.gov

Please review the Norfolk Design Review Process prior to application.
It is required to consult with the Historic Preservation Officer prior to submission.
Please submit 16 copies of the application form and all supplemental materials.

Incomplete applications will not be accepted and put on an agenda.

I. APPLICATION INFORMATION

DATE RECEIVED

Project Name: Riverview Lofts

Project Address: 139 Riverview Avenue, Norfolk, VA 23510

Brief Project Description: _____

Conversion of former ice storage facility into
81 apartments. This application is for approval of dumpster
enclosures.

Please check as applicable:

Public Project

Private Project

Encroachment

☐ Single-Family or Duplex

☒ Multi-family or
Commercial

☐ Institution or
Public Facility

Type of Review:

☐ Discussion Review

Preliminary Review

☒ Final Review

Certificate of Appropriateness:

Downtown

Ghent

East Freemason

West Freemason

II. APPLICANT INFORMATION

Applicant Name: 139 Riverview, LLC, Andy McCullough, Manager

Applicant Address: 4006 Victory Blvd., Suite J-222, Portsmouth, VA 23701

Phone: 757-615-4615 Fax: _____ E-mail: andy@rockvilledevelopment.com

Property Owner Name (if different): _____

Property Owner Address: _____

Phone: _____ Fax: _____ E-mail: _____

III. APPLICATION CHECKLIST

Scope of Project:

- ☒ New Construction
- ☒ Exterior Renovation/ Alteration
- ☒ Demolition
- ☐ Addition
- ☐ Signage
- ☒ Fencing
- ☒ Driveway, Sidewalk, Parking
- ☒ Landscaping
- ☐ Re-roofing
- ☐ Other _____

Supplemental Information to include:

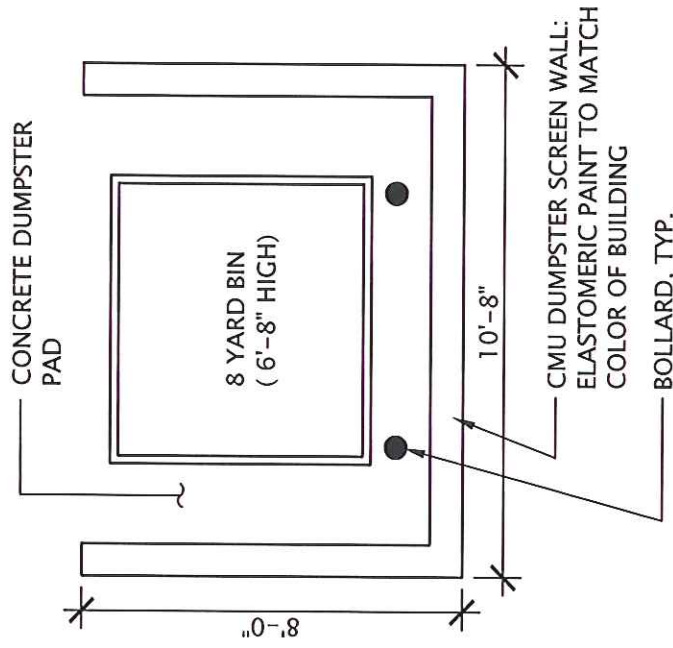
- ☒ Drawings and elevations drawn to scale with notes and specifications- floor plans to be included for new construction or if interior alterations affect exterior elevations
- ☒ List of materials if not designated on plans, or sample board as needed- including siding, roofing, trim, windows, doors, etc.
- ☒ Site plan drawn to scale showing landscaping, parking, lighting, fencing, etc. with notes and materials
- ☒ Photographs of subject property and surrounding area
- ☐ Photographs of building site for new construction N/A
- ☐ Letter of permission from owner if applicant is not owner N/A
- ☐ Any additional information as requested by staff or the Committee

Signature of Applicant

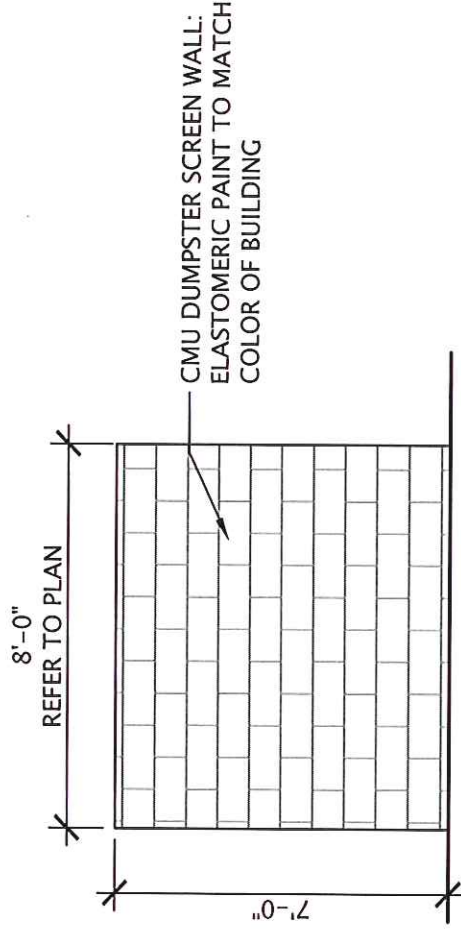
I hereby attest that the information I have provided is, to the best of my knowledge, correct.

Andy McCullough, Manager
Applicant Signature

3/2/2012
Date



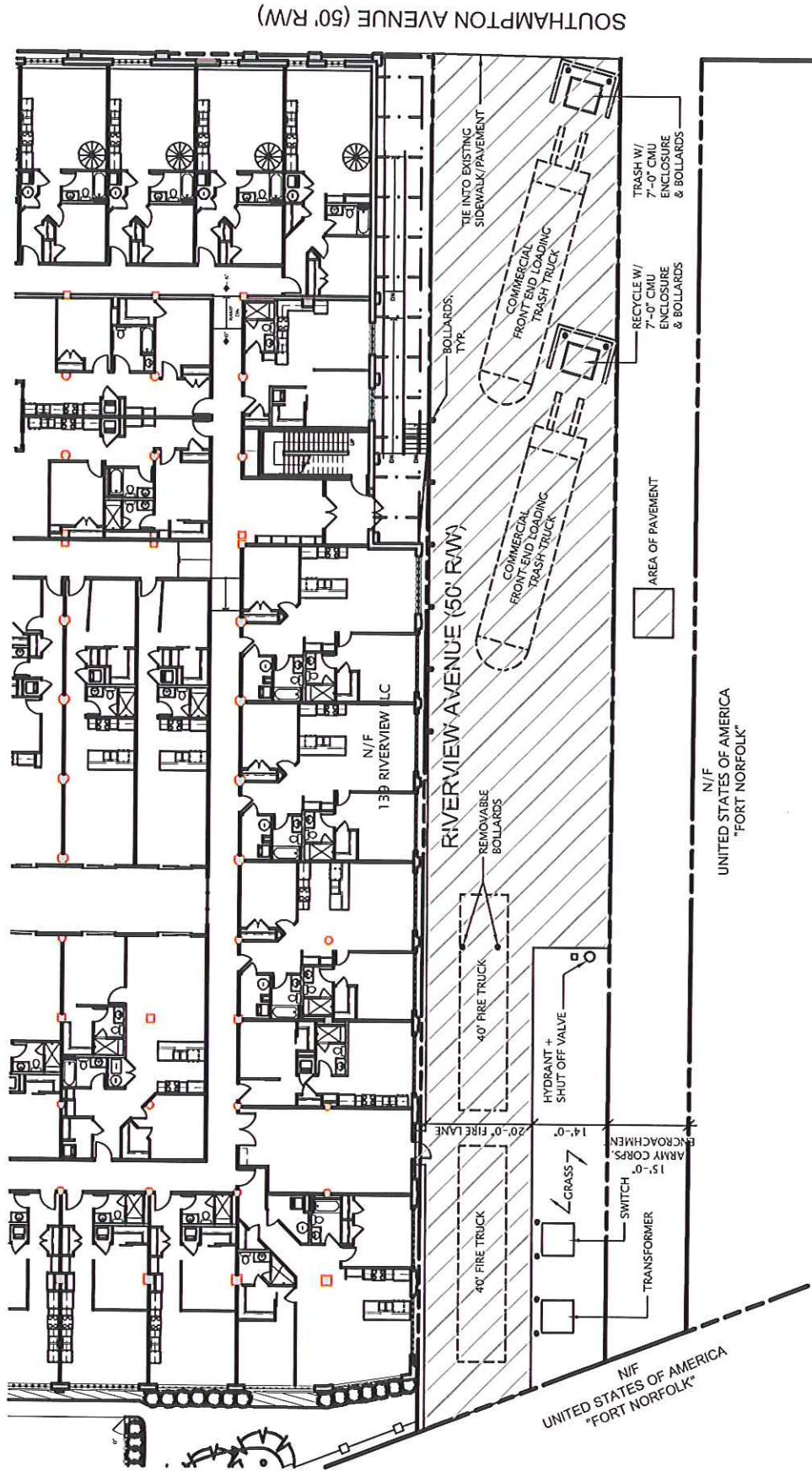
ENCLOSURE PLAN



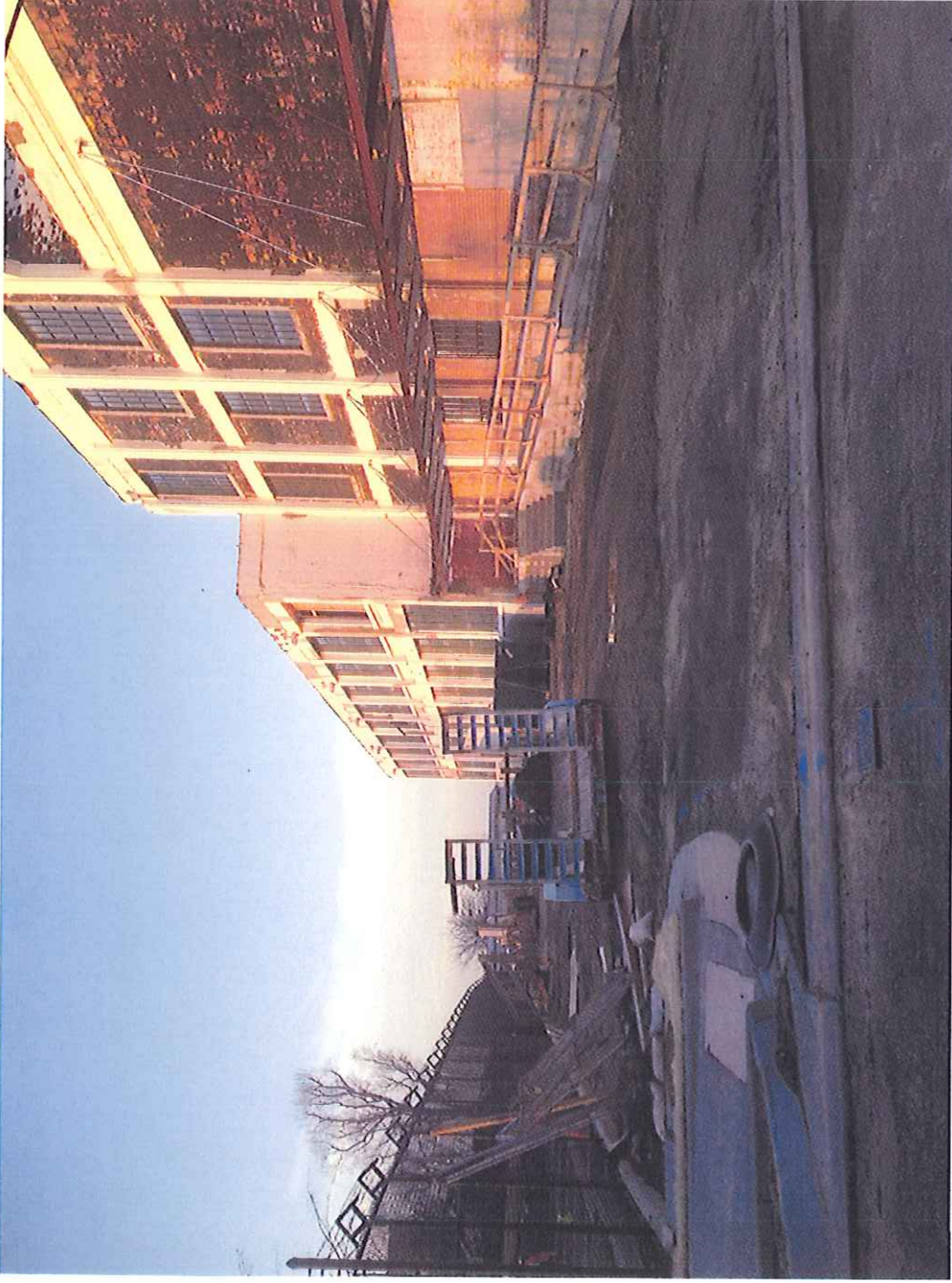
TYPICAL ENCLOSURE ELEVATION

RIVERVIEW LOFTS - DUMPSTER ENCLOSURE

139 RIVERVIEW AVE.
NORFOLK, VA
02.29.2012
SCALE: 1/4" = 1'-0"



RIVERVIEW LOFTS - FIRE LANE PAVING
 139 RIVERVIEW AVE.
 NORFOLK, VA
 02.29.2012
 SCALE: 1" = 30'-0"



VIEW FROM SOUTHAMPTON AVENUE

RIVERVIEW LOFTS - EXISTING SITE
139 RIVERVIEW AVE.
NORFOLK, VA
02.29.2012



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I. APPLICATION INFORMATION

DATE RECEIVED

Project Name: Ballerntine Park Beautification

Project Address: 2717 Tait Terrace

Brief Project Description: Install a water station and permeable pavers to increase ADA accessibility as well as reduce storm water run off.

Please see attached documents for details.

Please check as applicable:

☒ Public Project ☐ Private Project ☐ Encroachment

☐ Single-Family or Duplex ☐ Multi-family or Commercial ☐ Institution or Public Facility

Type of Review:

☐ Discussion Review ☒ Preliminary Review ☐ Final Review

Certificate of Appropriateness:

☐ Downtown ☐ Ghent ☐ East Freemason ☐ West Freemason

Ballentine Bark Park Beautification Project

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The Ballentine Bark Park Committee and the Ballentine Place Civic League would like to make improvements at the Ballentine Bark Park. These improvements would increase the accessibility of the park for residents in wheelchairs or with mobility issues and provide drinking water to the dogs while minimizing our carbon pawprints. The park is located next to a tidal creek of the Lafayette River.

The dog park consists of three major areas- the entry which includes the single entry gate and a 10'x10' corral, the little dog section with a single entry gate and the big dog section with a single entry gate.



ADA accessibility as well as environmental stewardship is the aim of the paver portion of this project. We have neighborhood residents with mobility issues such as the use of wheelchairs and walkers who use the park on a regular basis to exercise and socialize their dogs. They have difficulty using the park after rain and especially after prolonged periods of rain.

The entry and areas outside of the two single entry gates are the most used sections of the park. They are also the areas where standing water accumulates during a heavy rain. Drainage in this area is not ideal which leads to ruts, puddles, mud and mosquitoes. Grass simply cannot grow there. We have temporarily installed mulch, but this is not an optimal solution. Wheelchairs cannot navigate well through inches of mulch, especially if it has swelled after rain.



Therefore, we want to install permeable pavers in the 10 x 10 corral, and approximately 9' x 6' in a circumference around the interior gates and 3'x4' leading to the gate in the shape of a bone. (see attached)



These pavers will be installed in such a way as to promote proper drainage, using recognized environmental and industry standards. Additionally, these pavers will provide an even surface which will facilitate the use of wheelchairs and walkers for our neighbors with mobility challenges.

Batchelder and Collins is donating and/or giving us a discount on pavers, depending on the inventory they have on hand. The pavers will be of different sizes, shapes and colors but manufactured by Hanover and Belgard.



Our intention is to use the pavers to create a pleasing pattern similar to the photos included. The actual pattern and placement will depend entirely on which pavers we receive from Batchelder and Collins.



To create the bone shape, a four inch wide poured concrete edge will be created. The concrete will be dyed in a contrasting, coordinating shade with the pavers. This will hold the pavers in place.

Inside the bone, pavers of varying sizes, shapes and colors will be placed in a pleasing pattern. Although we are using these varying pavers out of economic necessity, we also want to use them to represent our neighborhood. Our neighborhood is home to people and dogs of all shapes, sizes, colors and cultures. The different pavers fit together, as our neighborhood fits together, creating a picture of unity through diversity.

In the entry to the corral, a 4' x 3' space will delineate the path to the gate and create a smooth surface for wheelchairs. A concrete edge will be used in the same dyed shade as the bone. The pavers will be a contrasting yet coordinating color to the pavers inside the bone.

The remaining space inside the corral will utilize pavers in the same color family as entry path.

All pavers will be installed according to industry standards (see attached) to promote ADA accessibility to the park and pervious pavement to reduce storm water run off through proper percolation.

In the water area, the same methods will be used to create a 4'x3' space on either side of the center fence line. A concrete edge will be poured in a matching shade to the bone shape. The interior pavers will be a similar pattern to the bone as well.







TAIT TERRACE

ENTRANCE CORRAL

6"POURED
CONCRETE

PAVERS

WATER STATION



NOTES:

PAVERS WILL BE IN THE GREY AND TAN FAMILY OF SHADES AND SOLID IN SHAPE. SPACE BETWEEN PAVERS WILL BE NO GREATER THAN 1/2" WIDE, IN ACCORDANCE WITH ADA ACCESSIBILITY STANDARDS.

PAVERS INSIDE THE ROUNDED PART OF THE BONE SHAPE WILL BE SET IN A CIRCULAR PATTERN. INSIDE THE STRAIGHT PART A STANDARD PATTERN, DICTATED BY THE SHAPE OF PAVERS DONATED, WILL BE USED.

THE BONE SHAPE WILL BE CREATED USING POURED CONCRETE TO CREATE A CURB, HOLDING THE PAVERS IN PLACE. THE CURB WILL BE LEVEL WITH THE PAVERS AND THE GROUND TO PROMOTE EASY ACCESS FOR WHEELCHAIRS.

LUMBER USED TO SHROUD THE WATER STATION WILL BE PRESSURE TREATED. "SIDING" WILL BE 2"x 4" PLANKS, SET IN A DECK STYLE EXCEPT VERTICAL.

BALLENTINE BARK PARK
ENTRY IMPROVEMENTS & WATER
STATION

2717 TAIT TERRACE NORFOLK VIRGINIA
MARCH 2012 SCALE:1:10

Hanover® Architectural Products presents...
Stormwater Management and Permeable Paving Units

HANOVER®
Architectural Products

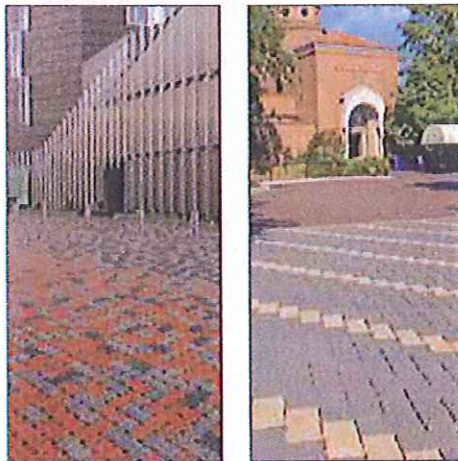
Achieving LEED Standards

Reducing the heat island effect and managing stormwater runoff when developing a building project both contribute to achieving LEED standards. The USGBC awards LEED credits in several categories, and the number of credits and points possible differ per category. The total number of possible points a building project can acquire is 69, including 64 core points and 5 additional points for innovation.

Gaining Ground

Evidence is mounting that the idea of the "green building" has finally hit the mainstream in the United States. Cities large and small are making great strides toward managing stormwater runoff and reducing the heat island effect. In New York, the rebuilding of 7 World Trade Center is focused on sustainability (using high-reflective Glacier White Hanover® Prest® Pavers), while convention centers and public parks in cities such as Pittsburgh, PA; Chattanooga, TN; and Bloomington, IN; are making use of high-reflective and permeable pavers to create environment-friendly developments. The need for sustainability continues to grow as energy and natural resources become increasingly scarce.

For additional information, trends in green building, and case studies, check out the following websites:
www.epa.gov
www.usgbc.org
www.advancedpavement.com



Hanover® Aqua-Loc® Permeable 4" x 9"

Hanover® Architectural Products

Hanover® Architectural Products has been considered a leader and at the forefront of unit paver system development since 1971. Hanover® manufactures a variety of products ranging from small hand-held Prest® Brick and Asphalt Block, to larger scaled Prest® Pavers. Hanover® can also provide vertical walling products. Visit www.hanoverpavers.com for more information.

Hanover® Prest® Pavers and Life-Cycle Costing

Along with their viability for use in green building projects, Hanover® concrete pavers have become an increasingly popular choice as architects and builders continue to look at life-cycle costing when specifying materials. Manufacturing has improved for pavers in regard to their durability and builders can now mechanically install many of these products that previously required expensive manual installation.

As repairs become necessary in the paving itself or systems that lie beneath the pavers—whether drainage, electrical work, gas pipes, air conditioning ducts, etc.—it is often simpler to remove and replace individual pavers as repairs are needed than it is to cut into asphalt or concrete coverings. Many builders have identified savings in the following areas:

Efficient Land Use

Clearly on the EPA radar since 1977, stormwater management is not a new topic. In the past, however, stormwater management and efficient land use might have been considered mutually exclusive, as post-development runoff was generally controlled by either a retention or detention pond.

Retention Pond — A retention pond is designed to hold a specific amount of water indefinitely. Usually the pond is designed to have drainage leading to another location when the water level gets above the pond capacity.

Detention Pond — A detention pond is a dry area that is designed to temporarily hold a set amount of water while slowly draining to another location.

Regardless of the technique, both types of ponds often require that large land areas be set aside and undeveloped on a given building site. Though still in use, retention and detention ponds are on the decline as architects and builders turn to permeable concrete pavers for parking lots, sidewalks, and plazas. The result is more flexibility in design options and more efficient use of the total building site, while at the same time maintaining an effective stormwater management system.



Hanover® EcoGrid®

- Expensive equipment is not required for removal
- Pavers can be reinstated after the repair
- Traffic interruptions and delays are reduced
- When removed, there is no damage to surrounding units
- Pavers do not leave visible patches to detract from the aesthetics

Where Am I?

The USGBC recognizes three distinct climates in the United States when it comes to measuring rainfall amounts.

Climate	Annual Rainfall
Humid Watershed	40 + inches
Semi-arid Watershed	20 to 40 inches
Arid Watershed	< 20 inches

For the Stormwater Design: Quality Control credit, LEED calculates that 90 percent of the average rainfall is equivalent to treating the runoff from

Climate	Annual Rainfall
Humid Watershed	1 inch of rainfall
Semi-arid Watershed	0.75 inches of rainfall
Arid Watershed	0.5 inches of rainfall

What is a Design Storm?

A "design storm" is a rainfall event of specified size and return frequency which is used to calculate runoff volume. A key element in the definition is "return frequency." A 2-year design storm has a return frequency of 2 years; a 10-year, 10 years; and so on.

A return frequency, is based on statistics and doesn't actually represent a specific time period. The year designation equals the inverse of the probability that a storm of a particular magnitude will occur in a 1-year time period. Thus, a 2-year storm has a 50 percent (1/2) chance of happening in any one year; a 10-year storm a 10 percent (1/10) etc. In practice, return frequencies are selected on the concept of level of protection, which is largely based on local experience.



City of Norfolk

Department of Recreation, Parks and Open Space

February 23, 2012

Ms. Ramsey,

Thank you for your letter in reference to the Ballentine Bark Park improvements. Nothing is more refreshing than seeing a community come together and take pride in their neighboring spaces in which residents, and even our four legged family members can enjoy.

Based on your letter and other graphics provided, everything seems to be a great improvement to the dog park. However, there are guidelines and procedures both set by the Department of Recreation, Parks and Open Space (RPOS) as well as the Planning Department's Design Review Committee that will need to be followed. My department has a guide book specifically for the development and improvements to dog parks which can be found on our department's home page. Once my department has granted approval, your group will need to obtain approval through the Design Review Committee.

All improvements and park upgrade requests for our dog parks as well as other parks and open space proposals are channeled through RPOS's Division of Open Space Planning and Development. At this point in time in looking over the schematics that you sent me, our development staff will require this proposal to be more complete and provide details graphically on in actual plan view of the site. Your point of contacts will be Chad Morris (chad.morris@norfolk.gov), Division Head of Open Space Planning Development and Paul Forehand (paul.forehand@norfolk.gov), Project Manager. Please work with Chad and Paul for guidance and approvals needed for your project.

Thanks again for your letter and best of luck with your project.

Sincerely,

Darrell R. Crittendon
Director of Recreation, Parks & Open Space

cc: Chad Morris, Division Head of Open Space Planning & Development
Paul Forehand, Project Manager

ENVIRONMENTAL SPECIES of NORTH AMERICA

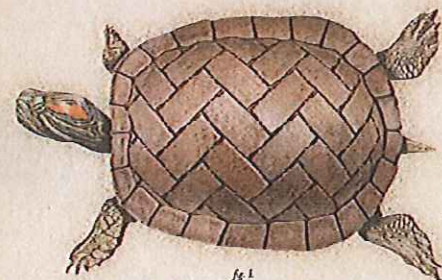


fig. I
AQUA-BRIC
(herringbone pattern)
80MM AquaBric-5" x 10" x 80MM.
Approx. 2.94 pavers/ft²
A modular unit that stacks up to create the
herringbone industrial traffic.

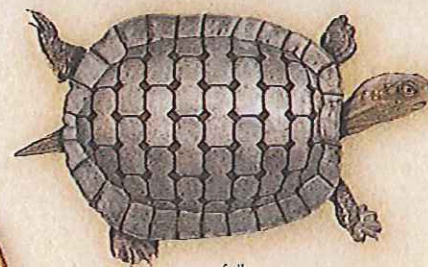


fig. II
ECO-STONE
(runner pattern)
80MM Eco-Stone-4" x 8" x 80MM.
Approx. 4.5 pavers/ft²
Heavy-duty Eco-Stone helps you develop land
under even the strictest controls.

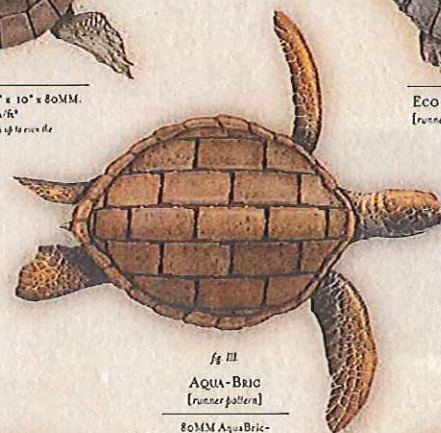


fig. III
AQUA-BRIC
(runner pattern)

80MM AquaBric-5" x 10" x 80MM.
Approx. 2.94 pavers/ft²
A modular unit that stacks up to
create the herringbone industrial traffic.

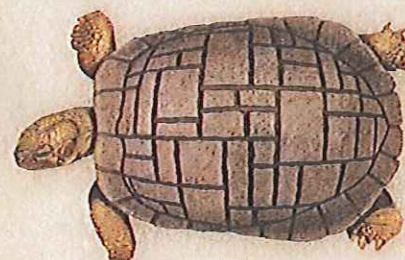


fig. IV
SUBTERRA
(herringbone pattern)
80MM Subterra-11 1/4" x 7 1/4" x 80MM.
Approx. 1.67 pavers/ft²
Subterra permeable pavers eliminate standing water,
allowing natural drainage.

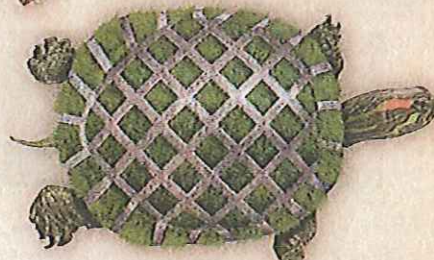


fig. V
TURFSTONE
(turfstone pattern)
80MM Turfstone-23 1/4" x 15 1/4" x 80MM.
Approx. .39 pavers/ft²
Turfstone permeable pavers let grass grow in between the
pavers, creating a lush green lawn.

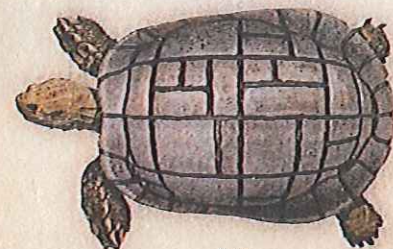


fig. VI
SUBTERRA
(stack bond pattern)
80MM Subterra-11 1/4" x 7 1/4" x 80MM.
Approx. 1.67 pavers/ft²
Subterra permeable pavers eliminate standing water,
allowing natural drainage.

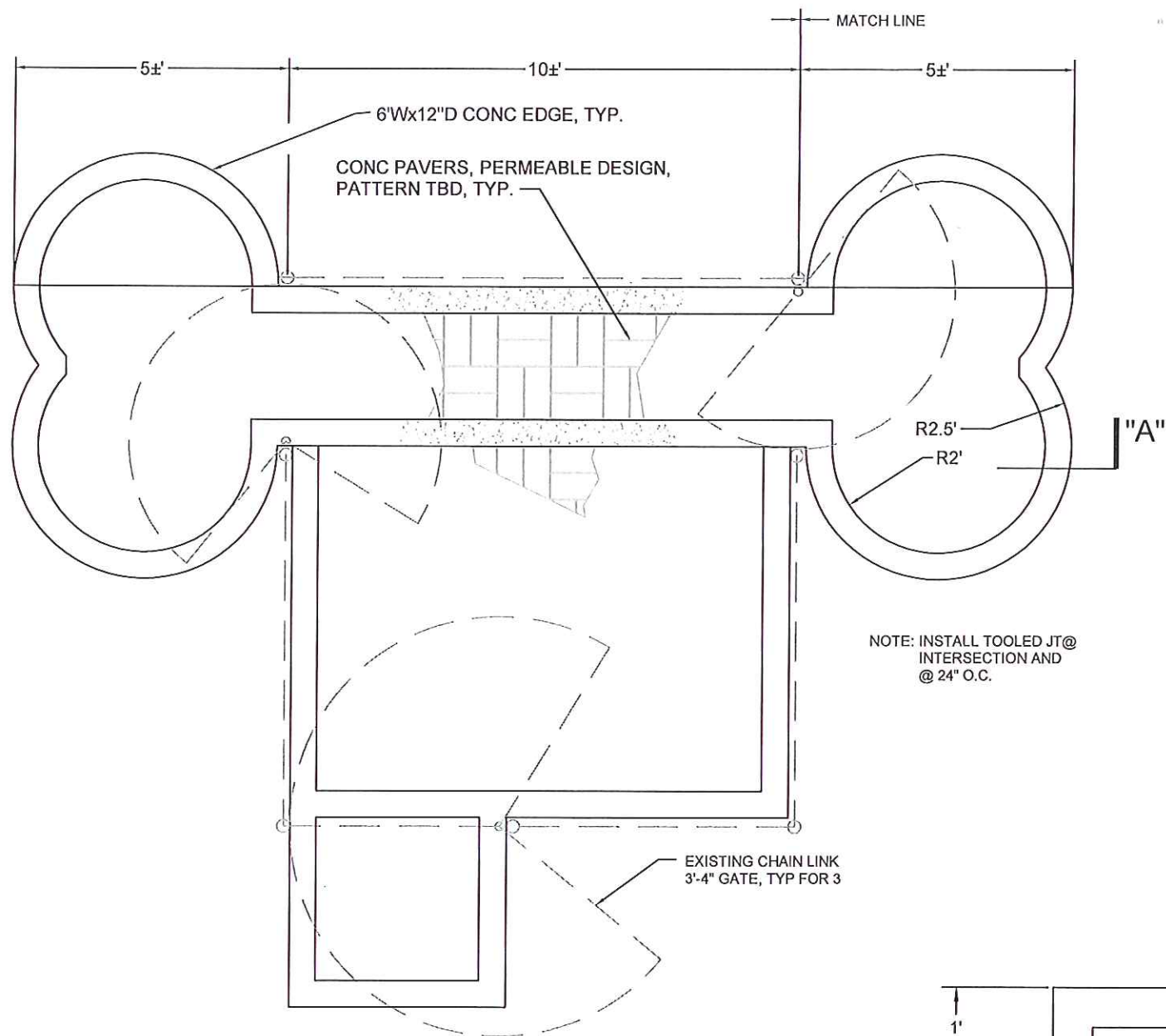


fig. VII
AQUA-BRIC LOO
(herringbone pattern)
80MM AquaBric Loo-4 1/4" x 9" x 80MM.
Approx. 3.56 pavers/ft²
A modular unit that stacks up to create the
herringbone industrial traffic.

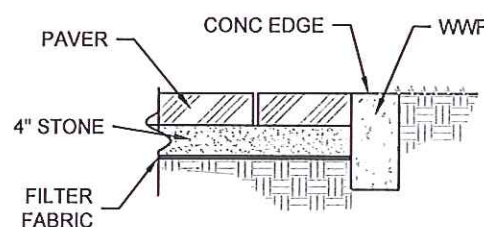
Discover a new genus of paver, ideal for both residential and commercial hardscapes. Belgard's Environmental pavers are attractive, all-weather durable, and most important, eco-friendly. The perfectly natural way to protect one of Earth's most vital resources. Every paver allows water to permeate and directly enter the ground, thereby reducing the negative effects of runoff on local watersheds, and ultimately the lakes, rivers and seas downstream. Thoughtfully crafted to help you construct hardscapes both good-looking and green. Because it's what's beneath that truly matters.



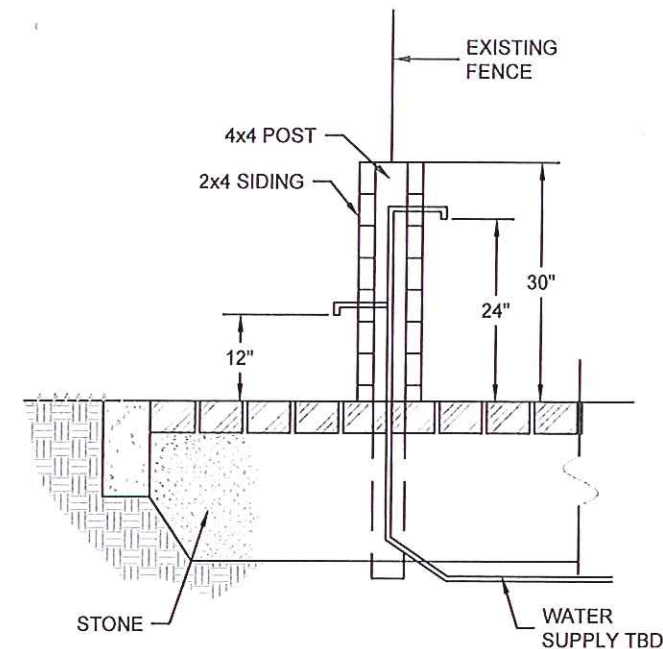
TO LEARN MORE ABOUT NATURE'S HARDSCAPES, PLEASE CALL 1-877-BELGARD OR VISIT US AT BELGARDSPRING.COM



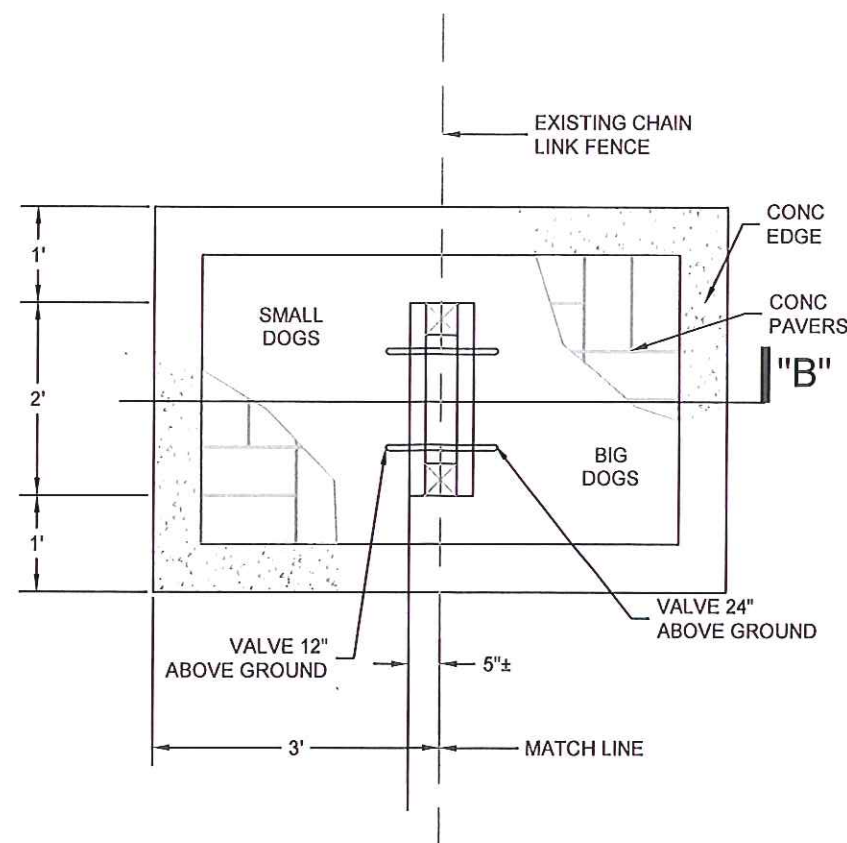
ENTRANCE PLAN
Scale = 1:3



EDGE DETAIL "A"
SCALE: 1:2



SECTION "B"
SCALE: 1:2



CANINE WATER STATION
SCALE: 1:2

NOTES:

PAVERS WILL BE IN THE GREY AND TAN FAMILY OF SHADES AND SOLID IN SHAPE. SPACE BETWEEN PAVERS WILL BE NO GREATER THAN ½" WIDE, IN ACCORDANCE WITH ADA ACCESSIBILITY STANDARDS.

PAVERS INSIDE THE ROUNDED PART OF THE BONE SHAPE WILL BE SET IN A CIRCULAR PATTERN. INSIDE THE STRAIGHT PART A STANDARD PATTERN, DICTATED BY THE SHAPE OF PAVERS DONATED, WILL BE USED.

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BALLENTINE BARK PARK
ENTRY IMPROVEMENTS & WATER STATION
2717 TAIT TERRACE NORFOLK VIRGINIA
MARCH 2012



N O R F O L K

APPLICATION FOR DESIGN REVIEW

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Please submit 16 copies of the application form and all supplemental materials.

Incomplete applications will not be accepted and put on an agenda.

I. APPLICATION INFORMATION

DATE RECEIVED

Project Name: East Beach Boat Ramp

Project Address: South end of 24th Bay Street

Brief Project Description: Construction of a 12' wide x 68' long concrete boat ramp and a 6' wide x 70' long timber pier.

Please check as applicable:

- | | | |
|--------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------|
| <input type="checkbox"/> Public Project | <input checked="" type="checkbox"/> Private Project | <input type="checkbox"/> Encroachment |
| <input type="checkbox"/> Single-Family or Duplex | <input checked="" type="checkbox"/> Multi-family or Commercial | <input type="checkbox"/> Institution or Public Facility |

Type of Review:

- | | | |
|--------------------------------------------|---------------------------------------------|--------------------------------------------------|
| <input type="checkbox"/> Discussion Review | <input type="checkbox"/> Preliminary Review | <input checked="" type="checkbox"/> Final Review |
|--------------------------------------------|---------------------------------------------|--------------------------------------------------|

Certificate of Appropriateness:

- | | | | |
|-----------------------------------|--------------------------------|-----------------------------------------|-----------------------------------------|
| <input type="checkbox"/> Downtown | <input type="checkbox"/> Ghent | <input type="checkbox"/> East Freemason | <input type="checkbox"/> West Freemason |
|-----------------------------------|--------------------------------|-----------------------------------------|-----------------------------------------|

II. APPLICANT INFORMATION

Applicant Name: East Beach Company

Applicant Address: 4487 Pleasant Avenue, Norfolk, VA 23518

Phone: 757-333-6640 Fax: 757-333-6656 E-mail: jboohaker@eastbeachnorfolk.com

Property Owner Name (if different): N/A

Property Owner Address: _____

Phone: _____ Fax: _____ E-mail: _____

III. APPLICATION CHECKLIST

Scope of Project:

- ☒ New Construction
- ☐ Exterior Renovation/ Alteration
- ☐ Demolition
- ☐ Addition
- ☐ Signage
- ☐ Fencing
- ☐ Driveway, Sidewalk, Parking
- ☐ Landscaping
- ☐ Re-roofing
- ☐ Other _____

Supplemental Information to include:

- ☐ Drawings and elevations drawn to scale with notes and specifications- floor plans to be included for new construction or if interior alterations affect exterior elevations
- ☐ List of materials if not designated on plans, or sample board as needed- including siding, roofing, trim, windows, doors, etc.
- ☐ Site plan drawn to scale showing landscaping, parking, lighting, fencing, etc. with notes and materials
- ☐ Photographs of subject property and surrounding area
- ☐ Photographs of building site for new construction
- ☐ Letter of permission from owner if applicant is not owner
- ☐ Any additional information as requested by staff or the Committee

Signature of Applicant

I hereby attest that the information I have provided is, to the best of my knowledge, correct.

Tom B.
Applicant Signature
Langley

Digitally signed by Tom B.
Langley
DN: cn=Tom B. Langley,
o=Langley and McDonald,
Inc., ou,
email=tlangleymcdonald.com, c=US
Date: 2012.03.06 15:22:06
-05'00'

March 6, 2012

Date

EAST BEACH HARBOR COMPLIANCE CERTIFICATE APPLICATION

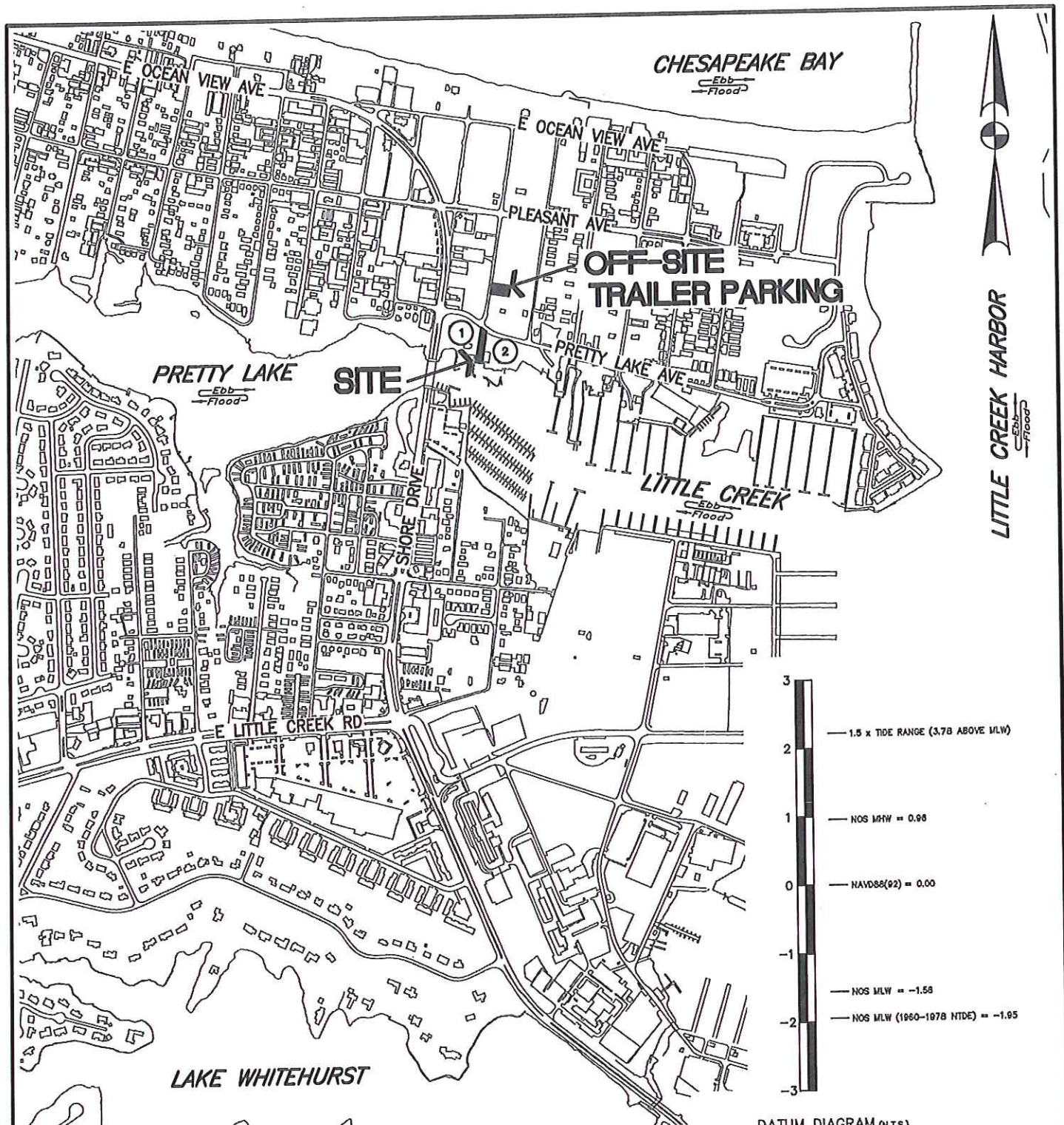
City of Norfolk Zoning Code Section 10-10.5

(a) Application Requirements

1. Applicant's name and address: East Beach Company, LLC
4487 Pleasant Avenue
Norfolk, VA 23518
2. Owner's name and address: Same
3. Street address and legal description: South end of 24th Bay Street
Plat of East Ocean View, Plat A, Sec. 2
4. Zoning classification & present use: EBH-SPD
5. Complete description of proposed use: Boat ramp and attendant pier
6. Plan or drawing: Permit drawings attached
7. Traffic impact analysis: Not applicable
8. Environmental impact analysis: Not applicable
9. Other information: None
10. Professional consultants: Tom B. Langley, PE, LS
Langley & McDonald
309 Lynnhaven Parkway
Virginia Beach, VA 23452
11. Statement addressing 10-10.8 and 10-10.9 criteria: The closest uses listed in Table 10-10.8 are "Commercial Outdoor Recreation" and "Marinas, excluding boat repairs." In each case, the use is permitted with EBH Compliance Certificate, and a special exception use without EBH Compliance Certificate. Section 10-10.9 does not apply.
12. Other information: None

(b) Site Plan

Permit drawings attached



HYDROGRAPHIC SURVEY PROVIDED BY EAST COAST
HYDROGRAPHIC SURVEYORS CONSULTANTS.
ELEVATIONS ARE IN FEET REFERRED TO NAVD88(92)=0.00.

DATUM DIAGRAM (N.T.S.)
ELEVATIONS ARE IN FEET REFERRED TO NAVD88(92)
SEE NOTE 2.

PURPOSE : BOAT RAMP

DATUM : NAVD88(92) = 0.00

ADJACENT PROPERTY OWNERS

- ① LISA EDWARDS
- ② VIRGINIA JACOBS
- ③
- ④
- ⑤

PERMIT APPLICATION

VICINITY MAP

Langley and McDonald, Inc
Engineers Planners Surveyors
309 LYNNHAVEN PARKWAY
VIRGINIA BEACH, VIRGINIA 23452
757-463-4306 (FAX) 757-463-3563

IN : LITTLE CREEK
AT : EAST OCEAN VIEW
CITY/COUNTY : NORFOLK

APPLICATION BY :
EAST BEACH COMPANY AND
ANCHOR PROPERTIES

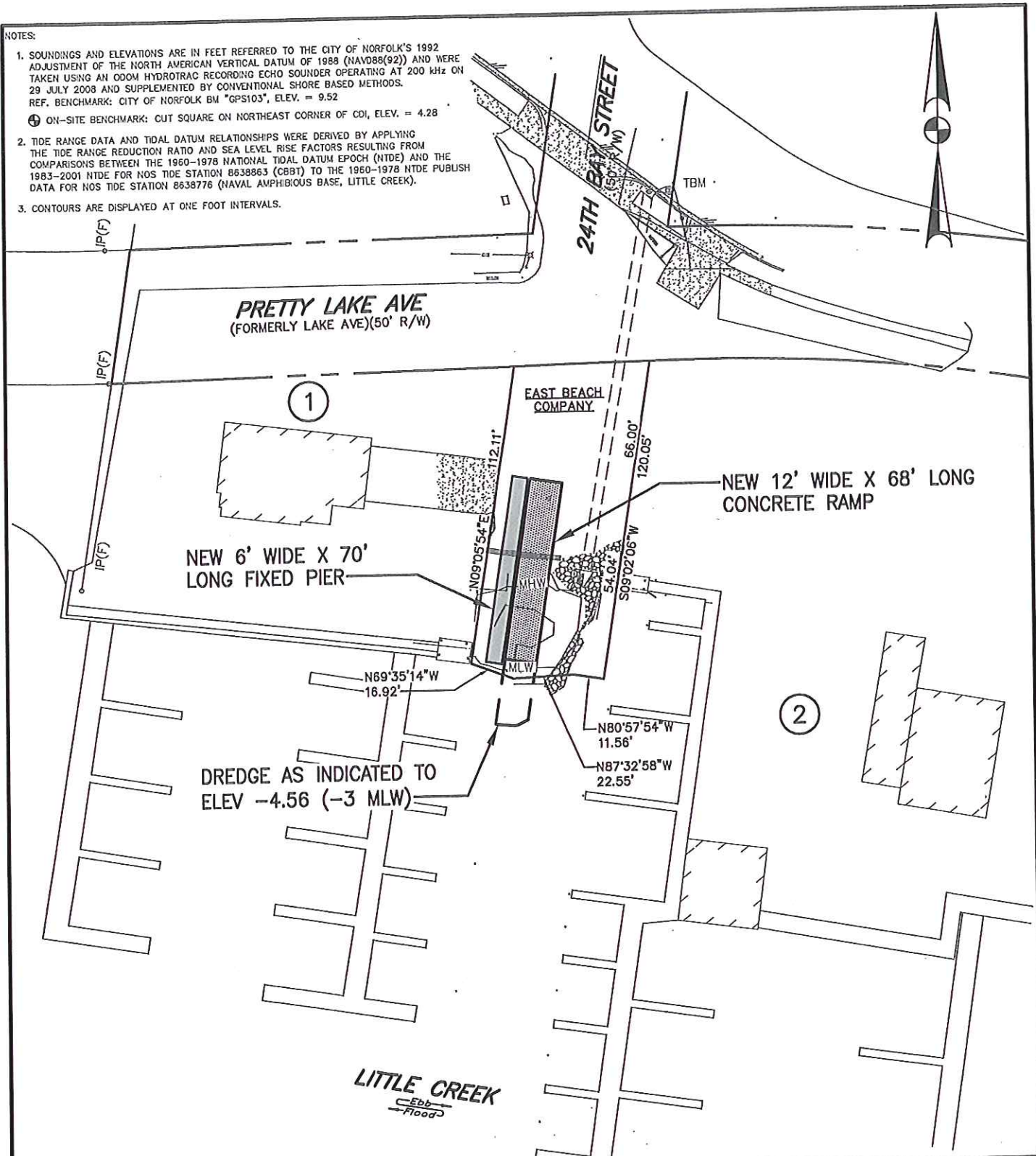
DATE: 12/17/08

SCALE : 1" = 1000'

SHT. 1 OF 4

NOTES:

1. SOUNDINGS AND ELEVATIONS ARE IN FEET REFERRED TO THE CITY OF NORFOLK'S 1992 ADJUSTMENT OF THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88(92)) AND WERE TAKEN USING AN ODOM HYDROTRAC RECORDING ECHO SOUNDER OPERATING AT 200 kHz ON 29 JULY 2008 AND SUPPLEMENTED BY CONVENTIONAL SHORE BASED METHODS.
REF. BENCHMARK: CITY OF NORFOLK BM "GPS103", ELEV. = 9.52
④ ON-SITE BENCHMARK: CUT SQUARE ON NORTHEAST CORNER OF CDI, ELEV. = 4.28
2. TIDE RANGE DATA AND TIDAL DATUM RELATIONSHIPS WERE DERIVED BY APPLYING THE TIDE RANGE REDUCTION RATIO AND SEA LEVEL RISE FACTORS RESULTING FROM COMPARISONS BETWEEN THE 1960-1978 NATIONAL TIDAL DATUM EPOCH (NTDE) AND THE 1983-2001 NTDE FOR NOS TIDE STATION 8638863 (CBBT) TO THE 1960-1978 NTDE PUBLISH DATA FOR NOS TIDE STATION 8638776 (NAVAL AMPHIBIOUS BASE, LITTLE CREEK).
3. CONTOURS ARE DISPLAYED AT ONE FOOT INTERVALS.



PURPOSE : BOAT RAMP

DATUM : NAVD88(92) = 0.00

ADJACENT PROPERTY OWNERS

- ① LISA EDWARDS
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- ③
- ④
- ⑤

PERMIT APPLICATION

AREA MAP

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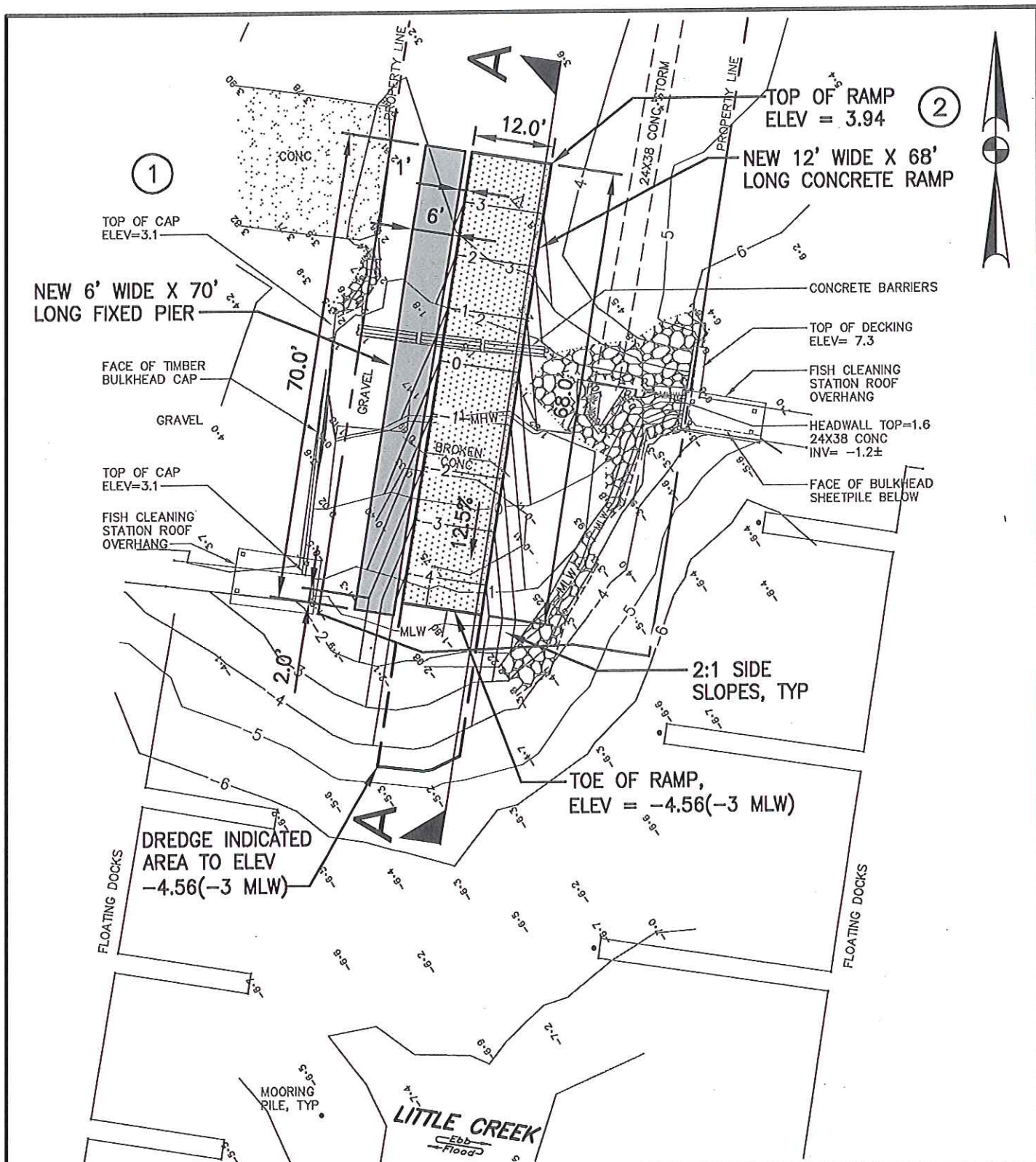
IN : LITTLE CREEK
AT : EAST OCEAN VIEW
CITY/COUNTY : NORFOLK

APPLICATION BY :
EAST BEACH COMPANY AND
ANCHOR PROPERTIES

DATE: 12/17/08

SCALE : 1" = 50'

SHT. 2 OF 4



PURPOSE : BOAT RAMP

DATUM : NAVD88(92) = 0.00

ADJACENT PROPERTY OWNERS

- ① LISA EDWARDS
- ② VIRGINIA JACOBS
- ③
- ④
- ⑤

PERMIT APPLICATION

PLAN VIEW

Langley and McDonald, Inc
Engineers Planners Surveyors
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757-463-4306 (FAX) 757-463-3563

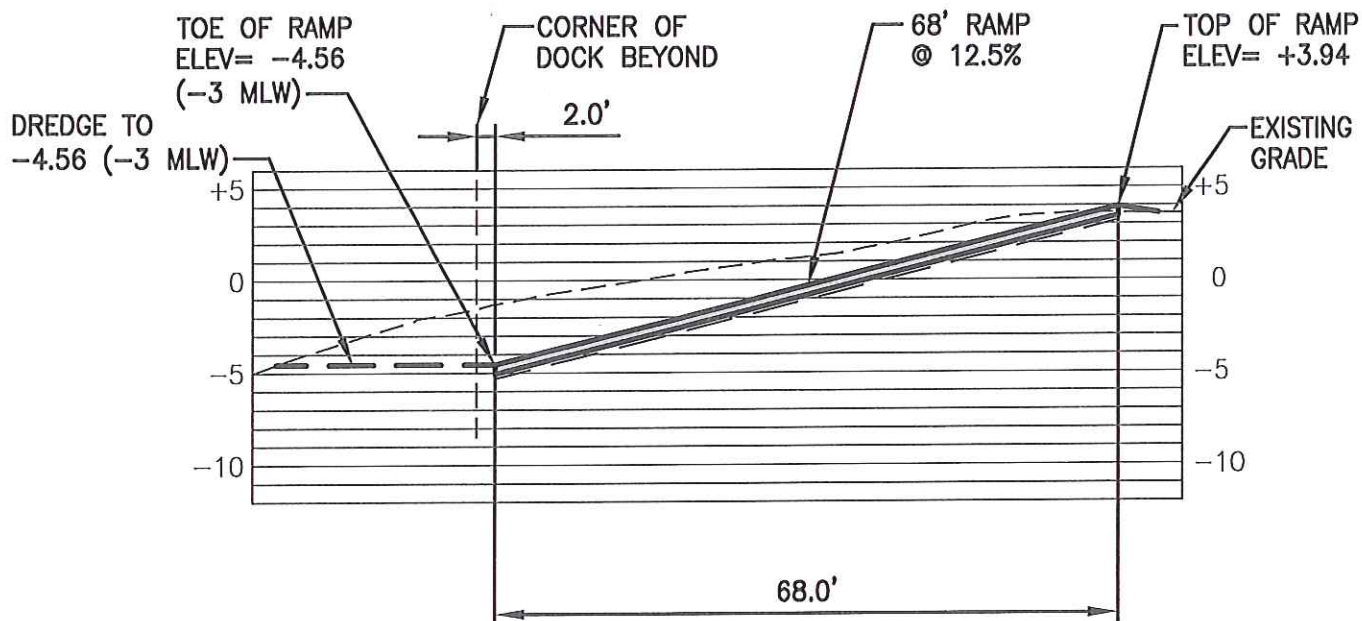
IN : LITTLE CREEK
AT : EAST OCEAN VIEW
CITY/COUNTY : NORFOLK

APPLICATION BY :
EAST BEACH COMPANY AND
ANCHOR PROPERTIES

DATE: 12/17/08

SCALE : 1" = 20'

SHT. 3 OF 4



SECTION A-A
HORIZONTAL SCALE 1"=20'
VERTICAL SCALE 1"=10'

PURPOSE : BOAT RAMP

DATUM : NAVD88(92) = 0.00

ADJACENT PROPERTY OWNERS

- ① LISA EDWARDS
- ② VIRGINIA JACOBS
- ③
- ④
- ⑤

PERMIT APPLICATION

SECTION A-A

Langley and McDonald, Inc
Engineers Planners Surveyors
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VIRGINIA BEACH, VIRGINIA 23452
757-463-4306 (FAX) 757-463-3563

IN : LITTLE CREEK
AT : EAST OCEAN VIEW
CITY/COUNTY : NORFOLK

APPLICATION BY :
EAST BEACH COMPANY AND
ANCHOR PROPERTIES

DATE: 12/17/08

SCALE : 1" = 20'

SHT. 4 OF 4

